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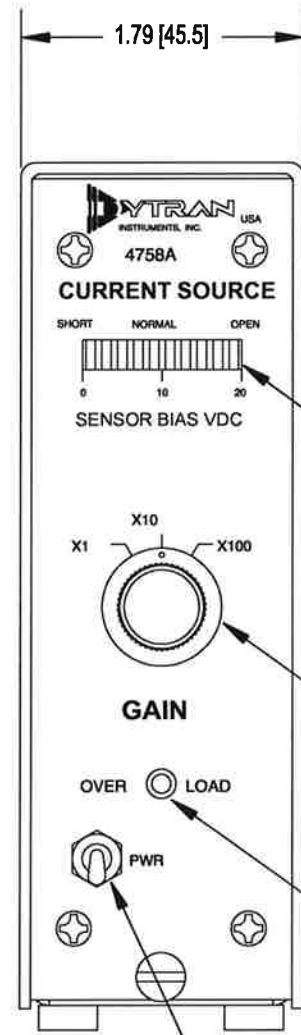
DWG NO 127-4758A		SH 1	REV A				
REVISIONS							
REV.	ECN	DESCRIPTION			BY/DATE	CHK	APPR
A	11435	INITIAL RELEASE			JS 01/05/15	LA	R

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D



LED VOLTMETER

3 POSITION GAIN SWITCH

OVER LOAD INDICATOR

POWER ON/OFF TOGGLE SWITCH

10-32 CAPTIVE THUMB SCREW FOR RACK MOUNTING

7.83 [199.0]

7.00 [177.8]

BNC SIGNAL OUTPUT JACK

BNC SENSOR JACK

5.38 [136.7]

.14 [3.5]

24 VDC POWER CONNECTOR

C

C

B

B

A

A

1. AC TO 24 VDC POWER SUPPLY (NOT SHOWN) SUPPLIED.  
NOTES: UNLESS OTHERWISE SPECIFIED

UNLESS OTHERWISE SPECIFIED: INTERPRET DIM & TOL PER ASME Y14.5M - 1994. REMOVE BURRS. COUNTERSINK INTERNAL THDS Ø; TO MAJOR DIA. CHAM EXT THDS 45°; TO MINOR DIA. THD LENGTHS AND DEPTHS ARE FOR MIN FULL THDS. DIMENSIONS APPLY AFTER FINISHING.		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES. DIMENSIONS IN BRACKETS [ ] INCHES. TOLERANCES ARE: DECIMALS METRIC ANGLES .XX ± .03 .XX ± 0.8 ± 1° .XXX ± .010 .XXX ± 0.25		<b>MASTER</b> <small>North CA</small> <b>ONLY IF IN RED</b>													
<table border="1"> <tr> <th colspan="2">APPROVALS</th> <th>DATE</th> </tr> <tr> <td>ORG</td> <td>JS</td> <td>12/16/14</td> </tr> <tr> <td>CHK</td> <td>LA</td> <td>1/6/15</td> </tr> <tr> <td>APP</td> <td>R</td> <td>1/6/15</td> </tr> </table>		APPROVALS		DATE	ORG	JS	12/16/14	CHK	LA	1/6/15	APP	R	1/6/15	<b>TITLE:</b> <b>OUTLINE/ INSTALLATION DRAWING,          MODEL 4758A</b>			
APPROVALS		DATE															
ORG	JS	12/16/14															
CHK	LA	1/6/15															
APP	R	1/6/15															
DO NOT SCALE DRAWING		<table border="1"> <tr> <td>SIZE B</td> <td>CAGE CODE 2W033</td> <td>DWG NO 127-4758A</td> <td>REV A</td> </tr> </table>	SIZE B	CAGE CODE 2W033	DWG NO 127-4758A	REV A	<table border="1"> <tr> <td>SCALE: NONE</td> <td>SHEET 1 OF 1</td> </tr> </table>		SCALE: NONE	SHEET 1 OF 1							
SIZE B	CAGE CODE 2W033	DWG NO 127-4758A	REV A														
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<b>Model Number</b> 4758A	<b>PERFORMANCE SPECIFICATIONS</b>	<b>DOC NO</b> PS4758A
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	<b>Current Source Power Unit</b>		REV A, ECN 11435, 01/05/15
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- POWERS IEPE SENSORS
- SUPPLIES 4mA OF CONSTANT CURRENT
- SELECTABLE GAIN FACTORS OF x1, x10, x100

**This family also includes:**

Model	Sensitivity (mV/g)	Frequency Response (Hz)	Time Constant (Sec)	Operating Temp (°F)

Refer to the performance specifications of the products in this family for detailed description

**Supplied Accessories:**

- 1) Accredited calibration certificate (ISO 17025)
- 2) AC to DC power supply

**Notes:**

- [1] Measured at 1000Hz, 1.00 Volt RMS output amplitude
- [2] Measured with ten feet of input (sensor) cable. Longer cables will degrade high frequency in accordance with length and capacitance per foot.
- [3] Measured using zero-based straight line method, % of F.S. or any lesser range.
- [4] The LED array monitor meter reads the voltage bias of the sensor. Normal operation will illuminate one of the central bars. No sensor connected or an open sensor or cable will light the right hand bar. A shorted sensor or cable will light the left hand bar.
- [5] Connectors are case ground isolated.

**PHYSICAL**

Weight, Max  
Size (Height x Width x Depth)  
Housing Material

ENGLISH		SI	
26	oz	750	grams
5.4 x 1.8 x 7.0	in	13.7 x 4.6 x 17.8	cm
Aluminum Alloy		Aluminum Alloy	

**PERFORMANCE**

Voltage Gain, ± 1% [1]

x1  
x10  
x100

1	1
10	10
100	100

Frequency Response, ±3db [2]

x1  
x10  
x100

.16 to 200k	.16 to 200k	Hz	Hz
.16 to 60k	.16 to 60k	Hz	Hz
.16 to 6k	.16 to 6k	Hz	Hz

Output Noise, Broadband

x1  
x10  
x100

0.045	0.045	mV, RMS	mV, RMS
0.3	0.3	mV, RMS	mV, RMS
0.8	0.8	mV, RMS	mV, RMS

DC Voltage Offset

x1  
x10  
x100

<5	<5	mVDC	mVDC
<100	<100	mVDC	mVDC
<500	<500	mVDC	mVDC

Linearity [3]

±1	±1	% F.S.	% F.S.
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Full Scale Output Voltage Swing, Min.

±5	±5	Volts	Volts
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Maximum Output Voltage Swing

±10	±10	Volts	Volts
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Sensor Drive Current, Fixed

4	4	mA	mA
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Sensor Excitation (Compliance Voltage)

+20	+20	VDC	VDC
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Discharge Time Constant

0.5 to 2.0	0.5 to 2.0	Sec	Sec
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Line Voltage

110-230	110-230	VAC	VAC
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Polarity

Non-Inverting	Non-Inverting		
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Bias Monitor Meter, Front Panel [4]

10 Segment LED Bar Graph	10 Segment LED Bar Graph		
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Overload Indicator, Red LED, Front Panel

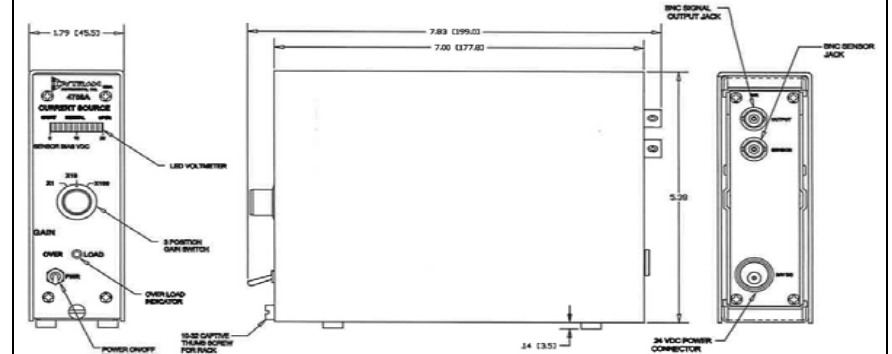
Glows when voltage swings to within .5 volt of rail	Glows when voltage swings to within .5 volt of rail		
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Sensor Connector, Rear Panel [5]

BNC Jack	BNC Jack		
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Output Connector, Rear Panel [5]

BNC Jack	BNC Jack		
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Units on the line drawing are in inches, units in brackets are in millimeters. Refer to 127-4758A for more information.



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